

CLAIMS:

1. A sigma-delta modulator, comprising:
at least two parallel filters, each receiving an input signal
a gain device for controlling a weight associated with an output of each of the
at least two parallel filters, and
5 a quantizer for quantizing a weighted output from said gain device.
2. The sigma-delta modulator of Claim 1, wherein an output of said quantizer is
fed back as an input to said at least two parallel filters.
- 10 3. The sigma-delta modulator of Claims 1-2, wherein at least one of said at least
two parallel filters is a high order filter and at least one of said at least two parallel filters is a
low order filter.
- 15 4. A method of sigma-delta modulation, comprising:
inputting a signal to at least two parallel filters,
controlling a weight associated with an output of each of the at least two
parallel filters, and
quantizing a weighted output from the at least two parallel filters.
- 20 5. The method of Claim 4, wherein an output of said quantizing is fed back as an
input to the at least two parallel filters.
6. The method of Claims 4 or 5, wherein at least one of the at least two parallel
filters is a high order filter and at least one of the at least two parallel filters is a low order
25 filter.
7. A signal processing apparatus comprising:
an input for obtaining an input signal,

a sigma-delta modulator as claimed in any of the claims 1-3 for obtaining an output signal , and
an output unit for providing said output signal.